

ACCREDITED  
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## Radioactive Sources (Domestic USA)

[International Customers Click Here](#)

Radioactive isotopes are drop-shipped from a different location and can not be returned or refunded.

**The Shopping Cart may not calculate shipping cost for radioactive isotopes correctly. If so, you will be contacted and charged additional shipping costs before order is processed.**

For Domestic and international source orders - Activities of gamma emitters over 5 to 10  $\mu\text{Ci}$  MAY require lead shielding, either LSD1, LSD4, or LSD5. For sources requiring shielding, an LSD1 is automatically added to the shopping cart. We will contact you, if a larger shield is more beneficial based on your total order. Images of the LSD1, LSD4, LSD5 are provided at the bottom of page for reference.

**All Radioisotope & Uranium Ore orders are shipped via USPS.**  
**For Expedited Shipping, please [contact us](#) for pricing.**

All orders for radioactive materials will be confirmed by a secondary email within 3 business days.

### License Free

All our radioactive isotopes and sources are legal to purchase and own by the general public. See [NRC Regulations](#).

Sample radioactive sources are for testing the functionality of a Geiger counter and for performing experiments involving radioactivity.



These are safe, uncalibrated solid sealed sources. They are fabricated by depositing a license exempt quantity of radioactive material in the well of a 1-inch diameter (25mm) by 1/8-inch thick (3mm) plastic disk. The well is filled with an epoxy sealing the radioactive material inside the source.

Contains (+/-) 20% of the stated activity and are routinely compared to calibrated reference standards. Each disk is identified by radio nuclide, amount of activity, and production date (month/year). The words "Caution - Radioactive Material" appear on the label of each source.

## Radioactive Sources

**\* Shielding is automatically added for Radioactive isotopes where required. \***

**International customers must order from:**

**[International Radioactive Sources Page](#)**

Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Barium-133	Gamma ( $\gamma$ )	10.7 years	0.1 uCi	BA-133-0.1	\$89.25
			1 uCi	BA-133-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	5 uCi	BA-133-5	\$164.50
	N/A	81.0, 276.3, 303.7, 355.9, 383.7	10 uCi	BA-133-10	\$235.75

BA-133-0.1 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Cesium-137	Gamma ( $\gamma$ ) & Beta ( $\beta$ )	30.1 years	0.25 uCi	CS-137-0.25	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	0.5 uCi	CS-137-0.5	\$89.25
	Multiple Radiation Types: ( $\gamma$ ) & ( $\beta$ )	$\gamma$ : 32, 661.6 $\beta$ : 511.6, 1173.2	1 uCi	CS-137-1	\$89.25
			5 uCi	CS-137-5	\$164.50
			10 uCi	CS-137-10	\$267.75

CS-137-0.25 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Cadmium-109	Gamma ( $\gamma$ )	465 days	1 uCi	CD-109-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	5 uCi	CD-109-5	\$164.50
	N/A	88	10 uCi	CD-109-10	\$253.75

CD-109-1 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Cobalt-57	Gamma ( $\gamma$ )	271 days	1 uCi	CO-57-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	5 uCi	CO-57-5	\$164.50
	Beta ( $+\beta$ ) 19 keV	122.1, 136.4	10 uCi	CO-57-10	\$253.75
			25 uCi	CO-57-25	\$327.25
			50 uCi	CO-57-50	\$476.00
			100 uCi	CO-57-100	\$773.50

CO-57-1 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Cobalt-60	Gamma ( $\gamma$ )	5.27 years	1 uCi	CO-60-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>			
	Beta ( $\beta$ ) 317.9	$\gamma$ : 1173.2, 1332.5 $\beta$ : 317.9			

CO-60-1 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Europium-152	Gamma ( $\gamma$ ) & Beta ( $\beta$ )	13.516 years	1 uCi	EU-152-1	\$164.50
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>			
	N/A				



EU-152-1 \$164.50 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Sodium-22	Gamma ( $\gamma$ )	2.6 years	1 $\mu$ Ci	NA-22-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	5 $\mu$ Ci	NA-22-5	\$164.50
	Beta ( $+\beta$ ) 546 keV	511.0, 1274.5	10 $\mu$ Ci	NA-22-10	\$267.75

NA-22-1 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Polonium-210	Alpha ( $\alpha$ )	138 days	0.05 $\mu$ Ci	PO-210-0.05	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	0.1 $\mu$ Ci	PO-210-0.1	\$89.25
	N/A	5304.5			

PO-210-0.05 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Tin-113	Beta ( $\beta$ )	115 days	1 $\mu$ Ci	SN-113-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>			
	Gamma ( $\gamma$ )	644, 31			

SN-113-1 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Strontium-90	Beta ( $\beta$ )	28.5 years	0.1 $\mu$ Ci	SR-90-0.1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>			
	N/A	546			

SR-90-0.1 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Thallium-204	Beta ( $\beta^-$ )	3.78 years	0.25 $\mu$ Ci	TL-204-0.25	\$89.25
			1 $\mu$ Ci	TL-204-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	5 $\mu$ Ci	TL-204-5	\$164.50
	N/A	763.7	10 $\mu$ Ci	TL-204-10	\$253.75

TL-204-0.25 \$89.25 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Zinc-65	Gamma ( $\gamma$ ) & Beta ( $\beta$ )	244 days	1 $\mu$ Ci	ZN-65-1	\$89.25
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>			
	Beta ( $\beta$ )	$\gamma$ : 1115.6 $\beta$ : 236.34, 1351.9			

ZN-65-1 \$89.25 ▼



## Laminated Mylar Window Sources



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Carbon-14	Beta ( $\beta$ )	5730 years	1 $\mu$ Ci	LMW-C14-1	\$125.80
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	10 $\mu$ Ci	LMW-C14-10	\$283.05
	N/A	$\beta$ 156.5			

LMW-C14-1 \$125.80 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Iron-55	X-Ray & K-Beta ( $\beta$ )	2.73 years	10	LMW-FE-55-10	\$283.05
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>	25 $\mu$ Ci	LMW-FE-55-25	\$362.60
	N/A	X-ray: 5.9, 6.5 $\beta$ : 231.4	50 $\mu$ Ci	LMW-FE-55-50	\$491.75
			100 $\mu$ Ci	LMW-FE-55-100	\$789.25

LMW-FE-55-10 \$283.05 ▼



Description	Primary Radiation Type	Half-Life	Activity	Item#	Price
Polonium-210	Alpha ( $\alpha$ )	138 days	0.1 $\mu$ Ci	LMW-PO-210-0.1	\$125.80
	<b>Secondary Radiation Type</b>	<b>Energies KeV</b>			
	N/A	5304.5			

LMW-PO210-0.1 \$125.80 ▼



## Source Certificates

Several types of source certificates are available for an additional fee.

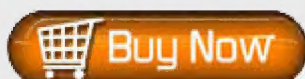
**All certificates must be ordered at the same time the source is ordered.**

### Certificate of Origin:

Certifies that the product is manufactured in Oak Ridge Tennessee, Anderson County United States of America.

**SC-O - \$55.00**

Source Certificate of Origin



### Certificate of Compliance:

Certifies that the source is in compliance with the US NRC and DOT regulation and that the surface has been wipe tested.

**SC-Compliance - \$25.00**

Source Certificate of Compliance



### Certificate of Calibration:

Certifies that the source has been calibrated, list intensity, emission and uncertainty. (Only available for Gamma sources.)

**SC-Calibration - \$157.00**

Source Certificate of Calibration





Alpha Particle Radioactive Source

Description	Activity	Half-Life	Item#	Price
Polonium-210	250 uCi	138 days	PO-210-250	<b>\$191.95</b>
	500 uCi	138 days	PO-210-500	<b>\$286.95</b>
	<b>Primary Radiation Type</b>	<b>Energies KeV</b>	<b>Secondary Radiation Type(s)</b>	
	Alpha (a)	5304.5	N/A	



250 uCi Alpha Source 500 uCi Alpha Source

Alpha Particle Source Information

- \* NY and CA residents are responsible for sales tax on this item, you will be contacted for charge.
- \* Not available for export

- PO-210-250 - \$191.95**  
Polonium-210 250 uCi Source
- PO-210-500 - \$286.95**  
Polonium-210 500 uCi Source

PO-210-250 \$191.95 ▼



Cloud Chamber/Spinthariscopes Needle Sources



These sources are used for viewing radioactive particle trails in a cloud chamber or spinthariscopes.

The needle sources are mounted in stoppers. The activity is deposited on the ends of the needles. Rubber stoppers fit into the ends of plastic test tubes for safe, convenient storage.

**PB-210** Needle Cloud Chamber Source Contains Pb-210 < 0.01 uCi Lead-210 Needle Source Emits both Alpha and Beta radiation for a variety of experiments. Long half-life of over 20 years.

**PO-210** Needle Cloud Chamber Source Contains Polonium-210 (< 0.01 uCi, Po-210) Needle Source Emits strong Alpha radiation (particles) and produces thick condensation trails.

**SR-90** Needle Cloud Chamber Source Contains (< 0.01 uCi, Sr-90) Needle Source Emits strong beta radiation.

\* All Radioisotope & Uranium Ore International orders are shipped via EMS. Except orders going to Canada, which are shipped FedEx Economy. Call or email for pricing.

**\*Shipping Prices are for ground shipments only. Call or email for all other services.**

**NS-PB-210 - \$67.95**

**NS-PO-210 - \$67.95**

**NS-SR-90 - \$67.95**

NS-PB-210 \$67.95 ▼



## Radioactive Source Sets



Sample radioactive sources for testing the functionality of a Geiger counter. Safe, uncalibrated solid sealed sources are fabricated by depositing a license exempt quantity of activity in the well of a 1-inch diameter (25mm) by 1/8-inch thick (3mm) plastic disk. After drying, the well is filled with an epoxy material; sealing the radioactivity inside the source. Contains 20% of the stated activity and are routinely compared to calibrated reference standards. Each disk is identified by radio nuclide, amount of activity, serial number and calibration date. The words "Caution - Radioactive Material" appear on the label of each source.

These radioactive sources are dropped shipped from separate location.

**\* International customers must order from: [International Radioactive Sources Page](#) \*Shipping Prices are for ground shipments only. Call or email for all other services.**



## RSS2

This set is used for determining the resolving time of GM Counters. It consists of three half discs, two of which contain 5 microcuries of Tl-204 plus a third half disc with no activity. The count-rate of each half disc plus the blank (to maintain constant geometry) is measured and then both active half discs are combined for a measurement with high count-rate. The counting loss may now be calculated by adding the rates from each half disc and comparing the result to the count-rate with both halves combined.



**RSS2 - \$327.25**



## RSS3

The S-7 contains 3 sources emitting a range of alpha, beta and gamma radiation. This set is ideal for demonstration and introductory nuclear labs covering basic characteristics of radiation.

### Includes

- (1) Po-210 0.1uCi
- (1) Sr-90 0.1uCi
- (1) Co-60 1uCi



**RSS3 - \$267.75**



## RSS5

The S-9 provides a wide range of alpha, beta and gamma emissions making it a popular choice for nuclear science instruction. The set contains two beta emitters, two beta/gamma emitters and one alpha source for in-depth studies of



**RSS5 - \$521.50**

radiation.

### Includes

- (1) Po-210 0.1uCi
- (1) Sr-90 0.1uCi
- (1) Co-60 1uCi
- (1) Tl-204 1uCi
- (1) Cs-137 5uCi



## RSS8

Designed for gamma spectroscopy, the S-10 contains eight different gamma emitting isotopes covering the entire energy range from 32 to 1333 keV. Also included in the set is a mixed source of Cs-137 and Zn-65 which students may use to identify an unknown isotope.



**RSS8 - \$714.00**



### Includes

- (1) Ba-133 1uCi
- (1) Cd-109 1uCi
- (1) Co-57 1uCi
- (1) Co-60 1uCi
- (1) Cs-137 1uCi
- (1) Mn-54 1uCi
- (1) Na-22 1uCi
- (1) Cs/Zn mixed source  
(0.5uCi Cs-137 & 1uCi Zn-65)

## Uranium Ore

Useful for testing Geiger Counters.

License exempt.

Uranium ore sample sizes vary.

Shipped in labeled metal container as shown.

Container size approximately 1-3/4" height 2-1/2" diameter.

Uranium ore samples may contain one or more several other minerals such as Tyuyamunite (green/yellow)



Uraninite (Black ,Crystalline)

Pitchblende (Black)

Carnotite (Green/Yellow, Lemon-Yellow)

Uranophane (Bright Yellow) and/or Gummite (Orange-Brown)

Each uranium ore specimen is radioactive and measured with a NRC certified GCA-07W Digital Geiger Counter. Activity of alpha, beta and gamma in Counts Per Minute (CPM) is provided along with measurement certification. Uranium Ore samples typically have one area that is more radioactive than other areas.

Measurement of radioactivity is taken from the most radioactive portion of the sample. CPM is total radiation read from sample.

### Shipping Information:

**\*Shipping Only Available Within The Contiguous United States**

We are always in compliance with Section 13 from part 40 of the NRC Nuclear Regulatory Commission rules and regulations and Postal Service regulations specified in 49 CFR 173.421 for activity limits of low level radioactive materials. Item will be shipped in accordance with Postal Service activity limits specified in Publication 52.

**Radioactive minerals are for educational and scientific use only.**

**Sale of uranium ore is in compliance with all U.S. Federal regulations (Part 40) and NY State Regulations (10 NYCRR Part 16 and 12 NYCRR Part 38) as defined under Appendix A exemptions.**

**UR-01 - \$49.95** Uranium Ore (300 CPM - 1,500 CPM)

**UR-02 - \$84.95** Uranium Ore (1,500 CPM - 3,000 CPM)

**UR-03 - \$134.95** Uranium Ore (High - Over 3,000 CPM)

**UR-04 - \$189.95** Uranium Ore (Extra-High over 5,000 CPM)

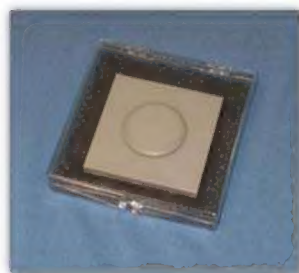
**Make Selection Of Uranium Ore**

UR-01 (300-1500 CPM) \$49.95



**Lead Shielded Disc Source Containers**



**Images of LSD shields are for Reference Only****LSD1****LSD1**

For 1-2 sources of >5 uCi, the LSD1 Lead Shield simplifies shipping problems and offers ultra-safe storage of sources. Now painted on both sides for safety.

**LSD4****LSD4**

For 1-8 sources, the LSD4 simplifies both shipment, and storage of your disk sources. Painted on both sides for safety, an entire set of eight sources will fit inside the LSD4

**LSD-5 - Lead Pig**

The LSD-5 Lead Shield is cast lead used to enclose our one-inch diameter disks.

**Specifications:**

- **Exterior Dimensions:** 2.25" x 3.6"
- **Interior Dimensions:** 1.25" x 2.65"
- **Wall Thickness:** 0.5"
- **Weight:** 4.7 lbs (2.13 kilograms)

The exterior is painted and placed within a vinyl cap.

**LSD-5 - \$90.00****New Lead Pig with Vinyl Shell****Lead Pig (Refurbished)**

**More Radioactive Source Containers [HERE](#)**

Plastic shelled lead storage containers for radioactive material, known in the industry as 'Pigs', The internal container is a solid cast lead container fabricated for nuclear material containment. Safely store your uranium ore, radioactive Isotopes, and other radioactive samples. The plastic shell protects you from physically touching lead, which is a toxic metal. Click on "More Pictures" below to see open view of container.



Our Pig includes a laminated label that you can record the contents.

[Lead Shielding Guide](#)

[More Pictures](#)

Outer Dimensions (approximate)

2.25"(diameter) x 3.5"(height)

Inner Dimensions (approximate)

1.1"(inside diameter) x 2.4"(inside depth)

Weight (approximate): 2 lbs.-1 oz.

Lead Thickness (approximate): 0.25"

**LP-01 HW - \$30.00**

**Lead Pig**



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